

FORM NO. 64

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Office Memorandum • UNITED STATES GOVERNMENT

DATE: 11 January 1960

TO : Chief, Research & Development Branch

FROM : Chief, Research & Development Laboratory

SUBJECT: Acceptance Test on RS-19

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Tests were conducted on several production RS-19

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The results of these tests are presented in the
attached report. Also, attached is a list of equipment received.

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Attachments:

A&A Report No. 239

List, RS-19 Equipment Received

DDO	29	REV DATE	18 APR 1960	BY	018373
ORIG COMP	33	OPI	5	TYPE	02
ORIG CLASS	S	PAGES	4	REV CLASS	
JUST	22	NEXT REV	2010	AUTH	HR 10-2

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RS-19 EQUIPMENT RECEIVED

<u>Item</u>	<u>Quantity</u>	
RS-19 Transmitter	8	
Antenna Cable	8	
Microphone and Cable	8	
Remote Control	9	
Battery Charging Cables	9	
RS-19 Receiver	9	
Antenna Cable	9	
Earphones, Cable and Hooks	9	
Battery Charging Cables	11	
RS-19 Retransmitter	9	
Loop Antennas	9	
<div style="border: 1px solid black; width: 150px; height: 15px;"></div>	10	25X1
<div style="border: 1px solid black; width: 180px; height: 15px;"></div>	4	25X1
Power Supplies	5	
Test Oscillators and Antennas	5	
Test Meters	4	
Cables (Loop Antenna)	4	
Cables (Receiver)	4	
Instruction Manuals	10	
Tuning Controls	9	
Extra Loading Coils	3	

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4 January 1960

1. Tests Performed

The RS-19 equipments were submitted to several tests. They included measuring the transmitter power output and frequency, measuring the receiver 20 db quieting sensitivity and receiving frequency, and an "operational" check of the entire system. The "operational" tests included connecting the individual transmitter to the antenna and coupling a small amount of the signal to the receiver. The transmitter was then checked for both tone and voice modulation by both the self contained controls and the remote control. The receiver squelch control and audio output (to earphones) were checked. The retransmitter and receiver were then checked.

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2. Tests Results

See Table 1, page 2.

3. Conclusions

Receiver number eight has been sent back to the manufacturer for realignment. It is suggested that system number four be sent back to the manufacturer to eliminate the spurious audio tone. Receiver number three should also be returned so that the test point circuitry can be repaired and unit can be realigned.

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Test Results

Unit	TRANSMITTER		RECEIVER		Re-Tx	M-Rec	Remarks on Operational Check
	Freq. (mc)	Output Power (Watts)	Freq. (mc)	20 db Quieting (uv)			
1	8.165	1.83	8.166	2	s	s	s
2	8.165	1.83	8.172	5	s	s	s
3	8.165	1.94	8.171	18	s	s	The test point circuitry in the receiver is inoperative.
4	8.165	1.68	8.169	2	s	No	There was a spurious audio tone during voice transmission.
5	8.165	1.55	8.170	0.45	s	s	s
6	8.165	1.68	8.163	2.2	s	s	s
7	-	-	8.169	2.2	s	s	No transmitter supplied. *
8	8.165	1.55	8.147	15,000	s	No	Bad sensitivity and squelch circuit (Receiver returned to manufacturer.)
9	8.165	1.68	8.165	7	s	s	s

Note: s = satisfactory

* Transmitter No. 8 was checked with receiver no. 7 and found to be satisfactory.

TABLE I